

FD9290" 28226860

APPROVED BY DRAFTSMAN	O.G. FIG. CLASS SUBCLASS
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5' NNG AAG GCT CAG CAT ACA CGT CGT GAC TTG GAA CGT GGC TTG GGC AGC GCC CCT	9	18	27	36	45	54
CGA GCT CTC AGT GAC CTG CTT CAG CTG AAC AAC CGG AAC CTC AAT CTT GAC ATA	63	72	81	90	99	108
TAT GTT ATT GGT TTG CAG GAA TTG AAC TCT GGG ATC ATA AGC CTC CTT TCC GAT	117	126	135	144	153	162
GCT GCC TTT AAT GAC TCG TGG AGC AGT TTC CTC ATG GAT GTG CTT TCC CCT CTG	171	180	189	198	207	216
				M	D	V
				L	S	P
				L		
AGC TTC ATC AAG GTC TCC CAT GTC CGT ATG CAG GGC ATC CTC TTA CTG GTC TTT	225	234	243	252	261	270
S F I K V S H V R M Q G I L L L V F						
GCC AAG TAT CAG CAT TTG CCC TAT ATC CAG ATT CTG TCT ACT AAA TCC ACC CCC	279	288	297	306	315	324
A K Y Q H L P Y I Q I L S T K S T P						
ACT GGC CTG TTT GGG TAC TGG GGG AAC AAA GGT GGA GTC AAC ATC TGC CTG AAG	333	342	351	360	369	378
T G L F G Y W G N K G G V N I C L K						

FIGURE 1A

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APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

387	396	405	414	423	432
CTT TAT GGC TAC TAT GTC AGC ATC AAC TGC CAC CTG CCT CCC CAC ATT TCC					
L Y G Y Y V S I I N C H L P P H I S					
441	450	459	468	477	486
AAC AAT TAC CAG CGG CTG GAG CAC TTT GAC CGG ATC CTG GAG ATG CAG AAT TGT					
N N Y Q R L E H F D R I L E M Q N C					
495	504	513	522	531	540
GAG GGG CGA GAC ATC CCA AAC ATC CTG GAC CAC GAC CTC ATT ATC TGG TTT GGA					
E G R D I P N I L D H D L I I W F G					
549	558	567	576	585	594
GAC ATG AAC TTT CGG ATC GAG GAC TTT GGG TTG CAC TTT GTT CGG GAA TCC ATT					
D M N F R I E D F G L H F V R E S I					
603	612	621	630	639	648
AAA AAT CGG TGC TAC GGT GGC CTG TGG GAG AAG GAC CAG CTC AGC ATT GCC AAG					
K N R C Y G G L W E K D Q L S I A K					
657	666	675	684	693	702
AAA CAT GAC CCG CTG CTC CGG GAG TTC CAG GAG GGC CGC CTA CTC TTC CCG CCC					
K H D P L L R E F Q E G R L L F P P					
711	720	729	738	747	756

FIGURE 1B

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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

ACC TAC AAG TTT GAT AGG AAC TCC AAC GAC TAT GAC ACC AGT GAG AAA AAA CGC
T Y K F D R N S N D Y D T S E K K R

765 774 783 792 801 810
AAG CCT GCA TGG ACC GAT CGC ATC CTG TGG AGG CTG AAG CGG CAG CCC TGT GCT
K P A W T D R I L W R L K R Q P C A

819 828 837 846 855 864
GGC CCC GAC ACT CCC ATA CCG CCG GCG TCA CAC TTC TCC TTG TCT CTG AGG GGC
G P D T P I P P A S H F S L S L R G

873 882 891 900 909 918
TAC AGC AGC CAC ATG ACG TAC GGC ATC AGC GAC CAC AAG CCT GTC TCC GGC ACG
Y S S H M T Y G I S D H K P V S G T

927 936 945 954 963 972
TTC GAC TTG GAG CTG AAG CCA TTG GTG TCT GCT CCG CTG ATC GTC CTG ATG CCC
F D L E L K P L V S A P L I V L M P

981 990 999 1008 1017 1026
GAG GAC CTG TGG ACC GTG GAA AAT GAC ATG ATG GTC AGC TAC TCT TCA ACC TCG
E D L W T V E N D M M V S Y S S T S

1035 1044 1053 1062 1071 1080

FIGURE 1C

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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

GAC TTC CCC AGC AGC CCG TGG GAC TGG ATT GGA CTG TAC AAG GTG GGG CTG CGG
D F P S S P W D W I G L Y K V G L R

1089 1098 1107 1116 1125 1134
GAC GTT AAT GAC TAC GTG TCC TAT GCC TGG GTC GGG GAC AGC AAG GTC TCC TGC
D V N D Y V S Y A W V G D S K V S C

1143 1152 1161 1170 1179 1188
AGC GAC AAC CTG AAC CAG GTT TAC ATC GAC ATC AGC AAT ATC CCT ACC ACT GAA
S D N L N Q V Y I D I S N I P T T E

1197 1206 1215 1224 1233 1242
GAT GAG TTT CTC CTC TAC TAC AGC AAC AGT CTG CGT TCT GTG GTG GGG ATA
D E F L L C Y Y S N S L R S V V G I

1251 1260 1269 1278 1287 1296
AGC AGA CCC TTC CAG ATC CCG CCT GGC TCC TTG AGG GAG GAC CCA CTG GGT GAA
S R P F Q I P P G L R E D P L G E

1305 1314 1323 1332 1341 1350
GCA CAG CCA CAG ATC TGA GCC AGG ATG GGA GTG AAT CCC AGG CGG AGG CCA GAG
A Q P Q I

1359 1368 1377 1386 1395 1404
CTG GCA GCC AGC TCT GCC TTT CCA CTG CCG GGA GTG CTG GGG GCC CAG CCT GGC

FIGURE 1D

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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

1413	1422	1431	1440	1449	1458
CCC CTG AAG AGA CAG CCA AGT GTC CAC ATA CTC CCA GAG TGA GCT CTA					
1467	1476	1485	1494	1503	1512
ACC AGG CTC ATT TGC TCT CTC CAC TAC TCA TCT CTG GAA TTA GCC GCT TAA ATA					
1521	1530	1539	1548	1557	1566
CAG GTT TTT GTT GCT GAG ATG TGA GTG AAA CCA GCT AGT GTG TCA ACA GTG AAG					
1575	1584	1593	1602	1611	1620
ACC TGG GGA CAG TTC TGC GTC TCA TTT CTG GAT TCC TAC CCC CTC TTC TAG TCT					
1629	1638	1647	1656	1665	1674
TGC CCA AGT AGT CCT GCC AGG CAC ATG CCC CAT TTG GCA CAG GCC TGC ATT CTT					
1683	1692	1701	1710	1719	1728
GTC GTG CCG TCC TGG GCC TCA GGC TGT CTG GGA GGG GAG ATG CTC ACA TTT GTA					
1737	1746	1755	1764	1773	1782
CAG GCT ACA TAG ACT GGT GCA AGC AGT GCT GGA TTC CAG GAG TCT TGG CAT CTC					
1791	1800	1809	1818	1827	1836
ATA GCT TGT CCC CGT GAG GAG TGA GCA GAG GGT CTG GGA TTT CTG CTT TCA GCA					

FIGURE 1E

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APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

1845	1854	1863	1872	1881	1890
AAA GCA GTC TGA CTC AGT GGG CAG AAT GGA GGG GCC CCT CTA GCC AGG CTC TTA					
1899	1908	1917	1926	1935	1944
CGC CAT GGT TAT GAG CAG GTT GAT GAG GGT CCT TCG GCC AGC ACA ACC TTC CTC					
1953	1962	1971	1980	1989	1998
CCT ACT CAC GGC ATG GAG TCT GAC TGC ATG GAA GTT CCA GAT CCT GAC AGA GAG					
2007	2016	2025	2034	2043	2052
AAC TGG GAA GGA TCC AGG TTC GCT TCC GTT GGT AGC TTG AGT CCC ATG CCT CCA					
2061	2070	2079	2088	2097	2106
CCC TGC CAT CTG AGG AAG GGG TGA CAA GTG GTC AAG GAG CTG TGG CCA CAG ACT					
2115	2124	2133	2142	2151	2160
TTT CCA GGG TGG TCC TTG GCA GGT GAG GTG CGT CTG TGC CAC CCT TGT CAG GAG					
2169	2178	2187	2196	2205	2214
TCA TTG ACG ACG GGC CCC CCC TGG ACC CCC CGG GAC CTC AGA GTG GGG GCA GGC					
2223	2232	2241	2250	2259	2268
AGA AGG GAG AAC CAG CTC AAG ACA TTT TGG AGG ATC TGG CCC TGG GGT TCT TCA					

FIGURE IF

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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

2277	2286	2295	2304	2313	2322
GAG AAC ACC CTC TAG GGG CTT TGG GGA CAT GGC CTG TCC CCA CAT CCA GCA CTT					
2331	2340	2349	2358	2367	2376
GCC TCC GCC ATG GTC ACT CGG CAG CCC TTT TCC CAG GAG AAG ACA CCT CTG GGA					
2385	2394	2403	2412	2421	2430
GCC TGC TCA GTG CTT GTC CTG CCA TCC TGT GTC CTG GGA CTG AGG GTT ACT CCA					
2439	2448	2457	2466	2475	2484
GTT GCT CTG TGT TGC ATA CTC TCC CCC GCA AGC CTG TGT ATG AAG AAT TGT CCC					
2493	2502	2511	2520	2529	2538
CTG GCT TCC AGC AGG CCA TGG CTG GCT GTT TTG TGA CTG TTA CAT TGT GCA GGG					
2547	2556	2565	2574		
GTA ATT ATT AGC GTG GCT TTT ACA CTT AAA AAA AAA A 3'					

FIGURE 1G

[illegible]

100

[illegible]

FIGURE 2B

107	D	H	D	L	I	I	W	F	G	D	M	N	F	R	I	E	D	F	G	L	H	F	V	R	E	S	I	K	N	R	C	Y	G	L	W	E	K	D	Q	638789			
3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g1399105				
467	N	H	D	V	I	L	W	L	G	D	L	N	Y	R	I	E	E	L	D	V	E	K	V	K	K	L	I	E	E	K	D	F	Q	M	L	Y	A	Y	D	Q	g1019103		
413	K	H	E	V	V	I	W	L	G	D	L	N	Y	R	I	E	L	C	M	P	D	A	N	E	V	K	S	L	I	N	K	K	D	L	Q	R	L	L	K	F	D	Q	g1420920
147	L	S	I	A	K	K	H	D	P	L	L	R	E	F	Q	E	G	R	L	L	F	P	P	T	Y	K	F	D	R	N	S	N	D	Y	D	T	S	E	K	K	638789		
25	L	N	M	A	K	N	T	W	P	I	L	K	G	F	Q	E	G	P	L	N	F	A	P	T	F	K	F	D	V	G	T	N	K	Y	D	T	S	A	K	K	g1399105		
507	L	K	I	Q	V	A	A	K	T	V	F	E	G	F	T	E	G	E	L	T	F	Q	P	T	Y	K	Y	D	T	G	S	D	D	W	D	T	S	E	K	C	g1019103		
453	L	N	I	Q	R	T	Q	K	K	A	F	V	D	F	N	E	G	E	I	K	F	I	P	T	Y	K	Y	D	S	K	T	D	R	W	D	S	S	G	K	C	g1420920		
187	R	K	P	A	W	T	D	R	I	L	W	R	L	K	R	Q	P	C	A	G	P	D	T	P	I	P	P	A	S	H	F	S	L	S	L	R	G	Y	S	638789			
65	R	K	P	A	W	T	D	R	I	L	W	K	V	K	-	A	P	G	G	P	S	P	S	G	R	K	S	H	R	L	Q	V	T	Q	H	S	Y	R	S	g1399105			
547	R	A	P	A	W	C	D	R	I	L	W	K	G	K	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g1019103			
493	R	V	P	A	W	C	D	R	I	L	W	R	G	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g1420920			
227	H	M	T	Y	G	I	S	D	H	K	P	V	S	G	T	F	D	L	E	L	K	P	L	V	S	A	P	L	I	V	L	M	P	E	D	L	W	T	V	-	638789		
104	H	M	E	Y	T	V	S	D	H	K	P	V	A	A	Q	F	L	Q	F	A	F	R	D	D	M	P	L	V	R	L	E	V	A	D	E	W	V	R	-	g1399105			
570	H	M	A	L	K	T	S	D	H	K	P	V	S	S	V	F	D	I	G	V	R	V	V	N	D	E	L	Y	R	K	T	L	E	E	I	V	R	S	L	D	g1019103		
516	H	M	E	L	K	T	S	D	H	K	P	V	S	A	L	F	H	I	G	V	K	V	V	D	E	R	R	Y	R	K	V	F	E	D	S	V	R	I	M	D	g1420920		
266	-	-	E	N	D	M	M	V	S	Y	S	S	T	S	-	D	F	P	S	S	P	W	D	W	I	G	L	Y	K	V	G	L	R	D	V	N	D	-	-	-	638789		
143	-	-	P	E	Q	A	V	V	R	Y	R	M	E	T	-	V	F	A	R	S	S	W	D	W	I	G	L	Y	R	V	G	F	R	H	C	K	D	-	-	-	g1399105		
610	K	M	E	N	A	N	I	P	S	V	S	L	S	K	R	E	F	C	F	Q	N	V	K	Y	M	Q	L	K	V	E	S	F	T	I	-	H	N	G	Q	V	g1019103		
556	R	M	E	N	D	F	L	P	S	L	E	L	S	R	R	E	F	V	F	E	N	V	K	F	R	Q	L	Q	K	G	K	F	Q	I	S	N	N	G	Q	V	g1420920		
300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	638789				
177	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	g1399105				
649	P	C	H	F	E	F	I	N	K	P	D	E	E	S	Y	C	K	Q	W	L	N	A	N	P	S	R	G	F	L	L	P	D	S	D	V	E	I	D	L	E	g1019103		
596	P	C	H	F	S	F	I	P	K	L	N	D	S	Q	Y	C	K	P	W	L	R	A	E	P	F	E	G	Y	L	E	P	N	E	T	V	D	I	S	L	D	g1420920		

FIGURE 2C

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APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

359 SLREDP - - - - - LG EAQPQI
379 SLSPSP QGHR - - - - - GL EGG LGP
919 H - QKLD MTEKK A QEF I H Q F L - - C N P L
875 L M A R Q T P S D R Q R A I Q F L L G F L L G S E E D

638789
g1399105
g1019103
g1420920

FIGURE 2E

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APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

Library	Lib Description	Abun	Pct	Abun
PANCISM01	pancreas, islet cells, NORM, WM	2	0.1907	
SCORNON01	spinal cord, 71 M, NORM	1	0.1379	
BSTMNOT01	brain stem, 72 M	1	0.1214	
MUSCNOT01	skeletal muscle, WM	2	0.0861	
THP1NOT01	THP-1 promonocyte cell line, untreated	1	0.0571	
SYNORAT01	synovium, elbow, rheumatoid, 51 F	1	0.0478	
NERVMSM01	multiple sclerosis, 46 M, NORM, WM	2	0.0448	
BRSTNOT03	breast, 54 F, match to BRSTTUT02	3	0.0441	
PENCNOT01	penis, corpus cavernosum, 53 M	1	0.0394	
COLNNOT09	colon, 60 M, match to COLNTUT16	1	0.0390	
PROSNOT20	prostate, 65 M, match to PROSTUT12	1	0.0336	
COLNNOT13	colon, ascending, 28 M	1	0.0311	
BRAITUT08	brain tumor, astrocytoma, 47 M	2	0.0293	
SCORNOT04	spinal cord, 32 M	1	0.0293	
LEUKNOT02	white blood cells, 45 F	1	0.0292	
COLNFET02	colon, fetal F	2	0.0286	
THYRTUT03	thyroid tumor, benign, 17 M	1	0.0276	
LNODNOT05	lymph nodes, 14 F	1	0.0271	
THP1AZS08	THP-1 promonocyte cell line, treated AZ, SUB	2	0.0269	
UTRSNOT08	uterus, endometrium, 35 F	1	0.0267	
HEAANOT01	heart, coronary artery, 46 M	1	0.0265	
HEAONOT03	heart, aorta, 27 F	1	0.0265	
BRAITUT13	brain tumor, meningioma, 68 M	1	0.0262	
COTRNOT01	colon, transverse, Crohn's, 26 M	1	0.0260	

FIGURE 3A

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APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

BONRFET01	rib, fetal M	1	0.0259
SINTFET03	small intestine, fetal F	2	0.0259
THYMNON04	thymus, 3 M, NORM	1	0.0257
STOMFET01	stomach, fetal F	1	0.0255
TYLMNOT02	lymphocytes (non-adher PBMNC), M/F	1	0.0254
HEAONOT05	heart, aorta, 17 F	1	0.0252
UTRSTUT04	uterine tumor, leiomyoma, 34 F	1	0.0250
LUNGTUT13	lung tumor, adenocarcinoma, 47 M	1	0.0249
PONSAZT01	brain, pons, Alzheimer's, 74 M	1	0.0249
TMLR3DT02	lymphocytes (non-adher PBMNC), M/F, 72-hr MLR	1	0.0246
PROSNOT15	prostate, 66 M, match to PROSTUT10	1	0.0241
SINJNOT02	small intestine, jejunum, 8 F	1	0.0241
UCMCNOT02	mononuclear cells	1	0.0236
LIVSFEM03	liver/spleen, fetal M, NORM, WM	1	0.0214
BRSTNOM02	breast, F, NORM, WM	1	0.0206
BRSTTUT03	breast tumor, 58 F, match to BRSTNOT05	2	0.0197
COLNTUT03	colon tumor, 62 M, match to COLNNOT16	1	0.0196
THYMNOT02	thymus, 3 M	1	0.0194
HNT3AZT01	hNT2 cell line, teratocarcinoma, treated AZ	1	0.0191
NEUTLPT01	granulocytes, periph blood, M/F, treated LPS	1	0.0173
MUSCNOT07	muscle, forearm, 38 F	1	0.0154
COLNNOT11	colon, 60 M, match to COLNTUT16	1	0.0149
NGANNOT01	ganglioneuroma, 9 M	2	0.0146
PROSTUT05	prostate tumor, 69 M, match to PROSNOT07	1	0.0145
THYRNOT03	thyroid tumor, adenoma, 28 F	1	0.0138
SPLNNOT04	spleen, 2 M	1	0.0128

FIGURE 3B

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APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

KIDNNOT05	kidney, neonatal F	1	0.0106
EOSIHET02	eosinophils, hypereosinophilia, 48 M	1	0.0105
OVARTUT01	ovarian tumor, 43 F, match to OVARNOT03	1	0.0103
UTRPNOM01	uterus, F, NORM, WM	1	0.0101
MELANOM01	melanocytes, M, NORM, WM	1	0.0096
BRSTTUT01	breast tumor, 55 F, match to BRSTNOT02	1	0.0095
BRAINOM01	brain, infant F, NORM, WM	2	0.0089
CARDFEM01	heart, fetal, NORM, WM	1	0.0082
UTRSNOT02	uterus, 34 F	1	0.0078
LUNGFET03	lung, fetal F	1	0.0069
PLACNOM02	placenta, neonatal F, NORM, WM	1	0.0056
LIVSFEM02	liver/spleen, fetal M, NORM, WM	2	0.0053

FIGURE 3C